

Remarks

The Examiner's courtesy of a telephone interview on June 19, 2002, is greatly appreciated. Further to that telephone interview, independent claims 1 and 26 have been amended in an effort to further clarify Applicant's claimed invention. It is believed that the amended claims (and their dependents) distinguish over the art of record, and that the application is in condition for allowance.

Appended herewith is an attachment captioned "Version with markings to show changes made" presenting a marked-up version of the changes made to the application by the current amendment, and an attachment captioned "Clean-copy Version of Claims" showing all remaining claims, in clean form. An attachment captioned "Clean-copy Version of Claims" showing all remaining claims, in clean form, is also included. If for any reason the Examiner feels that a telephone conference would in any way expedite prosecution of the subject application, the Examiner is invited to telephone the undersigned at (408) 395-8819.

Respectfully submitted,

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Version with markings to show changes made

In the claims,

Marked-up version of the amended claims, pursuant to 37 CFR 1.121(c)(1)(ii):

Claim 1 has been amended as follows:

1. (Twice Amended) A method for processing image information, the method comprising:

receiving an image in a first color space from an RGB (Red, Green, Blue) mosaic, said image including luminosity values captured at said RGB mosaic, said first color space including primary (Green) and secondary (Red, Blue) channels;

while said image is in said first color space, companding the image by mapping the luminosity values captured at said RGB mosaic into a space that is more linear to a human eye, but deferring any interpolation of pixels until after the companded image has been transferred;

transferring the companded image to a server computer;

storing information describing a second color space, said second color space including primary and secondary channels, said primary channel of said second color space corresponding to the primary channel of said first color space; and

at the server computer, transforming the image into said second color space, including:

interpolating the primary channel of said second color space to full resolution by interpolating missing Green pixels from said RGB mosaic, and

computing the secondary channels of said second color space as differences from the primary channel of said second color, including performing substeps of:

(i) computing one of said secondary channels of said second color space by differencing Red pixels with co-sited Green pixels interpolated from said RGB mosaic, and

(ii) computing the other of said secondary channels of said second color space by differencing Blue pixels with co-sited Green pixels interpolated from said RGB mosaic.

Claim 26 has been amended as follows:

26. (Twice Amended) A method for transforming RGB image information into an efficient color space representation, the method comprising:

receiving an image in a first color space from an RGB (Red, Green, Blue) mosaic, said first color space comprising an RGB color space having a primary channel comprising Green (G) and secondary channels comprising Red (R) and Blue (B), said image including luminosity values captured at said RGB mosaic;

while said image is in said first color space, companding the image by mapping the luminosity values captured at said RGB mosaic into a space that is more linear to a human eye, but deferring any interpolation of pixels until after the companded image has been transferred;

transferring the companded image to a server computer;

storing information describing a second color space having primary and secondary channels, said primary channel of said second color space comprising Green (G);
and

at the server computer, transforming the image into said second color space, including:

interpolating the primary channel of said second color space to full resolution by interpolating missing Green pixels from said RGB mosaic, and

computing the secondary channels of said second color space as differences from the primary channel of said second color space, by differencing Red pixels with co-sited Green pixels interpolated from said RGB mosaic and differencing Blue pixels with co-sited Green pixels interpolated from said RGB mosaic.

In the specification,

Marked-up version of the replacement paragraph(s)/section(s), pursuant to 37

CFR 1.121(b)(1)(iii):

There are no amendments to the specification.